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NOTICE OF ALLOWANCE AND FEE(S) DUE

2202

7590

01/27/2010

BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER
FANG, SHANE
ART UNIT PAPER NUMBER

DATE MAILED: 01/27/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/577,333	04/28/2006	Tomohisa Yamada	0171-1270PUS1	8031	

TITLE OF INVENTION: CHARGE-TRANSPORTING COMPOUND, CHARGE-TRANSPORTING MATERIAL, CHARGE-TRANSPORTING

VARNISH, CHARGE-TRANSPORTING THIN FILM, AND ORGANIC ELECTROLUMINESCENT DEVICE

L	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/27/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including deleted or directed of the attions.	ng the Patent, advance onerwise in Block 1, by (rders and notification (a) specifying a new co	of m orresp	aintenance fees woondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspondence rate "FEE ADD	address as RESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 2292 7590 01/27/2010					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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PO BOX 747	ART KOLASCH CH, VA 22040-0747] S &	I hereby certify that this Fee(s) Transmittal is being deposited wit States Postal Service with sufficient postage for first class mail in addressed to the Mail Stop ISSUE FEE address above, or beit transmitted to the USPTO (571) 273-2885, on the date indicated by				deposited with t class mail in a above, or being	the United n envelope g facsimile ow.	
			ſ					(Depo	ositor's name)
									(Signature)
			[(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO	RNEY DOCKET NO.	CONFIRMATIO	ON NO.
10/577,333	04/28/2006	•	Tomohisa Yamada	ι		0	171-1270PUS1	8031	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE I)UE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	04/27/2	010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	/BCLASS					
FANG,	SHANE	1796	528-422000						
1. Change of correspond CFR 1.363). Change of correspond CFR 1.363). Change of correspond CFR 1.363). The Address of the PTO/SB/47; Rev 03-03-03-03-03-03-03-03-03-03-03-03-03-0	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.								
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	A TO BE PRINTED ON iffied below, no assignee bletion of this form is NO	data will appear on th	e pat	tent. If an assign ssignment.			ocument has bee	n filed for
Please check the appropri	riate assignee category or	categories (will not be pa	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	up entity 🗖 G	overnment
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (I		e first reapply ar	ıy prev	iously paid issue fee	shown above)	
Issue Fee	No small entity discount p	:	A check is enclosed.						
	# of Copies		☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta	,	· · · · · · · · · · · · · · · · · · ·	_						ils form).
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Authorized Signature					Date				_
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/577,333 04/28/2006		Tomohisa Yamada	0171-1270PUS1	8031	
2292	2292 7590 01/27/2010		EXAMINER		
BIRCH STEWA	RT KOLASCH & B	FANG,	SHANE		
PO BOX 747			ART UNIT	PAPER NUMBER	
FALLS CHURCE	I, VA 22040-0747	1796			
		DATE MAILED: 01/27/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 429 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 429 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/577,333	YAMADA ET AL.	YAMADA ET AL				
Notice of Allowability	Examiner	Art Unit					
	SHANE FANG	1796					
	SHANE FAING	1790					
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr GHTS . This application is	in this application. If not include nunication will be mailed in due of	d course. THIS				
1. This communication is responsive to <u>12/18/09</u> .							
2. The allowed claim(s) is/are <u>1 and 5-13</u> .							
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the:) or (f).					
1. Certified copies of the priority documents have							
2. Certified copies of the priority documents have			Cara Carana (Inc.				
3. Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage applicat	on from the				
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew (PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of				
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of	Informal Patent Application					
Notice of Neterences Great (1 10-092) Notice of Draftperson's Patent Drawing Review (PTO-948)	<u> </u>	Summary (PTO-413),					
	Paper No	o./Mail Date					
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	/. ⊠ Examiner	's Amendment/Comment					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		's Statement of Reasons for Allov	wance				
YOUANE EANOL	9.	<u></u> ·					
/SHANE FANG/ Examiner, Art Unit 1796							

Application/Control Number: 10/577,333 Page 2

Art Unit: 1796

DETAILED ACTION

Response to Amendment

- The amendment of claim 1 has been found supported by the original claims and specification 0058.
- The previous objection to claim 4 has been rendered moot by cancellation.
- All previous rejections of claims 2-4 have been rendered moot by cancellation.
- The previous 112 2nd rejections of claims 1 and 5-13 have been overcome by examiner's amendment.
- The previous 102 rejections of claims 1-2, 4, and 7-8 over Ong et al. have been overcome by amendment.
- The previous 103 rejections of claims 5-8 over Ong et al. in view of Yamada et al.
 have been overcome by amendment.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Garth Dahlen on 01/11/2010.

2. Claim 1, 2nd line from the last, delete "and".

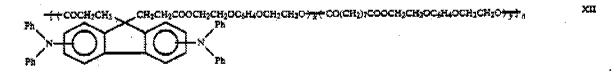
3. Claim 1, the last line, delete "1,000,000". Insert "1,000,000, wherein n is an integer larger than 1.".

- 4. Claim 5, 2nd line, delete "1 or 2". Insert "1".
- 5. Claim 7, 2nd line, delete "1 or 2". Insert "1".
- 6. Claim 8, 2nd line, delete "claim 7". Insert "claim 4".
- 7. Claim 9, 2nd line, delete "claim 8". Insert "claim 5".
- 8. Claim 10, 2nd line, delete "claim 9". Insert "claim 6".
- 9. Claim 11, 1st line, delete "claim 9". Insert "claim 6".
- 10. Claim 12, 1st line, delete "claim 9". Insert "claim 6".
- 11. Claim 13, 2nd line, delete "claim 9". Insert "claim 6".

Allowable Subject Matter

12. Claims 1 and 5-13 are allowable over the closest prior art: Ong et al. (US 5034296).

As to claim 1, Ong et al. discloses a charge transport compound (Abs.) having the following structure (11: XII), wherein Ph is phenyl (claim 19), x+y=1 (claim 1) and x and y can be 0.5 (11: XIII):



The following drawing of rearrangement of formula XII structure gives the following unit structure that meet previous presented claim 1:

Application/Control Number: 10/577,333 Page 4

Art Unit: 1796

However, the new definition of R^1 and R^2 as divalent benzene, alkane or arakane overcomes Ong et al., which indicates R^1 and R^2 to be ether or ester groups.

Therefore, claim 1 is allowable together with its dependant claims 5-13.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHANE FANG whose telephone number is (571)270-7378. The examiner can normally be reached on Mon.-Thurs. 8 a.m. to 6:30 p.m. EST.. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Application/Control Number: 10/577,333 Page 5

Art Unit: 1796

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

sf

/RANDY GULAKOWSKI/ Supervisory Patent Examiner, Art Unit 1796